

PRODUCTION OF ATTENUATED PARAINFLUENZA VIRUS  
VACCINES FROM CLONED NUCLEOTIDE SEQUENCES

Abstract Of The Disclosure

Isolated polynucleotide molecules provide  
5 recombinant PIV genomes and antigenomes for production of  
recombinant PIV vaccines. The recombinant genome or  
antigenome can be expressed with a nucleoprotein (N),  
phosphoprotein (P), and a large (L) polymerase protein to  
produce isolated infectious PIV particles. The recombinant  
10 PIV genome and antigenome can be modified to produce desired  
changes, for example to incorporate attenuating mutations from  
biologically derived PIV mutants or to create chimeric PIV  
clones, to generate attenuated, immunogenic viruses for  
vaccine use.

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